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	Application No.	Applicant(s)	
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Notice of Allowability	10/709,963 Examiner	BEINTNER ET AL. Art Unit	
	Chandra Chaudhari	2891	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this apply or other appropriate communication RIGHTS. This application is subject to	plication. If not includ will be mailed in due	ed course THIS
1. This communication is responsive to <u>June 9, 2004</u> .			
2. The allowed claim(s) is/are 1-9.			
3. ☐ Acknowledgment is made of a claim for foreign priority c a) ☐ All b) ☐ Some* c) ☐ None of the:	ınder 35 U.S.C. § 119(a)-(d) or (f).		
 Certified copies of the priority documents have 			
2. Certified copies of the priority documents have	- · · · ·		
 Copies of the certified copies of the priority de International Bureau (PCT Rule 17.2(a)). 	ocuments have been received in this i	national stage applica	tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of MENT of this application.	complying with the red	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINER' ves reason(s) why the oath or declarat	S AMENDMENT or N tion is deficient.	OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review (PTO-	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the drawin the header according to 37 CFR 1.121(d	gs in the front (not the l).	back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	lote the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application (PTC	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary (PTO-413),	

3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),

4. ☐ Examiner's Comment Regarding Requirement for Deposit

Paper No./Mail Date 6-9-04, 2-2-05

of Biological Material

Paper No./Mail Date

9. Other ____.

7. ☑ Examiner's Amendment/Comment

8.

Examiner's Statement of Reasons for Allowance

Art Unit: 2891

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-9, drawn to a method of making a semiconductor device, classified in class 438, subclass 300.

II. Claims 10-20, drawn to a semiconductor device, classified in class 257, subclass 347.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process such as forming the trench oxide and forming the first stack within the trench oxide.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Les Szivos on December 1, 2005 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-9. Affirmation of this election must be made by applicant in replying to this Office action. Claims 10-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Art Unit: 2891

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Les Szivos on December 1, 2005.

The application has been amended as follows:

In claim 1, line 15, after "material", insert --stack--;

In claim 1, line 25, after "forming", insert --the raised source/drain region, --.

In claim 5, line 2, after "stack", insert --layer--.

In claim 8, line 2, delete "spacers are", and insert -- spacer is--.

In claim 9, line 2, delete "spacers", and insert --spacer--.

Cancel claims 10-20.

The following is an examiner's statement of reasons for allowance:

The prior art does not disclose forming a raised source/drain region on the strained Si layer in regions adjacent to the second stack, and such that the exposed sidewalls of the trench oxide are protected with a sacrificial nitride spacer as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Ajmera – US 6,503,833 and Noguchi – US 6,682,965 describe forming strained devices.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Chandra Chaudhari whose telephone number is 571-272-1688. The examiner

can normally be reached on Mon - Fri (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill

Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chandra Chaudhari

Primary Examiner

Art Unit 2891

Chandra Chaudhari

C Chardhari

December 2, 2005